

**POLLUTION CONTROL SCIENCE, INC.**

6015 Manning Road, Miamisburg, Ohio 45342 (513) 866-5908

US EPA RECORDS CENTER REGION 5



454414

June 21, 1977

Mr. Bob Lamme
West Brook Maintenance
HOBART BROTHERS COMPANY
600 W. Main
Troy, Ohio 45373

Dear Mr. Lamme:

I am enclosing the results of the chemical analyses performed on the water samples submitted to us. Since I am not sure where the samples originated, it is difficult to interpret the significance. However there are several items which are of concern:

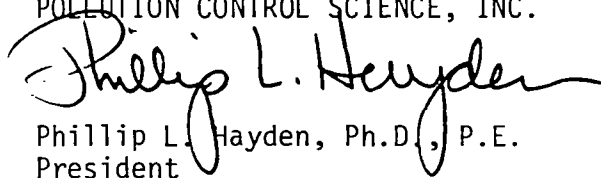
1. There is detectable lead in all samples of well water and the levels approach the limit of 50 ug/l established as the Primary Drinking Water Standard. I have checked with the Miami Conservancy and the Ohio EPA, and the only source of lead in the Troy area could be a battery manufacturing plant which is located nearby. Neither agency know the name of the battery plant nor its location. The Ohio EPA mentioned that the plant did have problems several years ago and was disposing of wastes on the ground. If this information is correct, the lead could have leached into the ground water. Would you please check and see if there are any battery manufacturing plants in the nearby area and their location.
2. There is a slight problem with nitrate in some of the samples. In the water samples labeled Hobart House, North Well, Hines Builders, and Railroad House, we found significant levels of nitrate. Although no samples exceeded 10 mg/l (Drinking Water Standard), the levels are appreciable. I would judge that the nitrate is probably due to inorganic fertilizer which was applied to fields in the area and leached into the ground water.
3. Analysis of the #3 Well-C South sample indicates very high levels of chloride, sulfate and other dissolved salts. Our analysis also indicates very high levels of ammonia (90 ppm) along with traces of heavy metals. The lead level exceeds the Drinking Water Standard of 50 mg/l. In general, this water is not acceptable for drinking purposes. I suggest that you look for an alternate source of water if this water is used for drinking.

Mr. Bob Lamme
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June 21, 1977

After you have reviewed the results, please call.

Sincerely,

POLLUTION CONTROL SCIENCE, INC.

A handwritten signature in cursive script that reads "Phillip L. Hayden". The signature is written in dark ink and is positioned over the printed name and title of the signatory.

Phillip L. Hayden, Ph.D., P.E.
President

PH/bs
Enclosures
cc: K. Driver

POLLUTION CONTROL SCIENCE, INC.

6015 Manning Road, Miamisburg, Ohio 45342 (513) 866-8821 5908

Account #/Name 48-005

Sample

PCS #: 77-709 - 711

Date Rec'd: 6/2/77

Client's P.O. #:


Report Date: 6/21/77

Analyst's Note: Inv. # 3191

Mr. Bob Lamme
West Brook Maintenance
HOBART BROTHERS COMPANY
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Troy, Ohio 45373

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		North Well #77-709	Hines Builders #77-710	Railroad House #77-711	National Primary Drinking Water Standards
pH		7.70	7.58	7.22	
Alkalinity as CaCO ₃	mg/l	255	260	365	
Hardness as CaCO ₃	mg/l	415	405	< 5	
Chloride	mg/l	140	87	96	
Sulfate	mg/l	58.8	71.0	44.0	
Ammonia as N	mg/l	0.25	NDL	0.17	
Nitrate as N	mg/l	6.70	7.80	6.90	10
Total Solids	mg/l	510	528	550	
<u>METALS</u>					
Arsenic	ug/l	NDL	NDL	NDL	50
Barium	ug/l	NDL	NDL	NDL	1000
Cadmium	ug/l	NDL	NDL	NDL	10
Chromium	ug/l	NDL	NDL	NDL	50
Copper	ug/l	110	10	85	
Lead	ug/l	45	50	35	50
Mercury	ug/l	NDL	NDL	NDL	2
Selenium	ug/l	NDL	NDL	NDL	10
Silver	ug/l	NDL	NDL	NDL	50
Zinc	ug/l	25	100	95	
Iron	ug/l	80	80	NDL	
Manganese	ug/l	20	< 10	< 10	
Nickel	ug/l	NDL	NDL	NDL	


Signature

POLLUTION CONTROL SCIENCE, INC.

6015 Manning Road, Miamisburg, Ohio 45342 (513) 866-062X 5908

Account #/Name

48-005

Sample

PCS #:

77-712 - 714

Date Rec'd:

6/2/77

Client's P.O. #:

Report Date:

6/21/77

Analyst's Note:

Inv. # 3191

Mr. Bob Lamme
West Brook Maintenance
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		#3 Well C South #77-712	Main Plant #77-713	Hobart House #77-714	National Primary Drinking Water Standards
pH		7.20	9.41	7.64	
Alkalinity as CaCO ₃	mg/l	320	55	255	
Hardness as CaCO ₃	mg/l	722	98	341	
Chloride	mg/l	1000	87	100	
Sulfate	mg/l	420	72.0	52.0	
Ammonia as N	mg/l	90.00	NDL	0.05	
Nitrate as N	mg/l	0.75	0.41	4.02	10
Total Solids	mg/l	1360	182	386	
<u>METALS</u>					
Arsenic	ug/l	NDL	NDL	NDL	50
Barium	ug/l	NDL	NDL	NDL	1000
Cadmium	ug/l	NDL	NDL	NDL	10
Chromium	ug/l	NDL	NDL	NDL	50
Copper	ug/l	50	NDL	NDL	
Lead	ug/l	85	20	50	50
Mercury	ug/l	NDL	NDL	NDL	2
Selenium	ug/l	NDL	NDL	NDL	10
Silver	ug/l	NDL	NDL	NDL	50
Zinc	ug/l	50	15	190	
Iron	ug/l	175	40	90	
Manganese	ug/l	250	< 10	NDL	
Nickel	ug/l	NDL	NDL	NDL	


Signature

Account #/Name 48-005

POLLUTION CONTROL SCIENCE, INC.

6015 Manning Road, Miamisburg, Ohio 45342 (513) 866-0621 5908

Sample

PCS #:

Date Rec'd:

Client's P.O. #:

Report Date:

Analyst's Note:

HOBART BROTHERS COMPANY

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NDL - No Detectable Level

DETECTION LIMITS

Ammonia	.05	mg/l
Arsenic	.001	mg/l
Barium	10	ug/l
Cadmium	.6	ug/l
Chromium	10	ug/l
Mercury	.01	ug/l
Selenium	50	ug/l
Silver	3	ug/l
Nickel	8	ug/l
Manganese	10	ug/l

Signature